

What is claimed is:

① Apparatus for minimizing coking in bearings of a turbine, comprising:
a lubricant reservoir containing a lubricant;
a main pump connected to said lubricant reservoir to supply said lubricant to said bearings, when said turbine is operating;
an auxiliary pump connected to said lubricant reservoir to supply said lubricant to said bearings, when said turbine is shut down, until said bearings have cooled down to an acceptable temperature.

2. Apparatus according to claim 1 wherein:
said turbine is a gas turbine.

③ Apparatus for minimizing coking in bearings of a turbine, comprising:
a lubricant reservoir containing a lubricant;
lubricant supply paths from said lubricant reservoir to each said bearing;
a main pump for supplying said lubricant to said bearings via respective ones of said lubricant supply paths, when said turbine is operating;
lubricant return paths from each said bearing to return said lubricant back to said reservoir;
an auxiliary pump connected to said lubricant reservoir to supply said lubricant to said bearings;
a control connected to said auxiliary pump;
said control being responsive, when said turbine and said main pump shut down, to turn on said auxiliary pump so as to continue supplying said bearings with said lubricant.

4. Apparatus according to claim 3 further comprising:
temperature sensors connected to said apparatus to obtain indications of lubricant temperature;

said control being responsive to said lubricant temperature indications to shut down said auxiliary pump when said lubricant temperature indications have attained predetermined values.

5. Apparatus according to claim 4 wherein:
said temperature sensors are connected to respective ones of said lubricant return paths.

al 6. Apparatus according to claim 3 wherein:
said turbine is a gas turbine.

7. Apparatus according to claim 3 further comprising:
a battery connected to said auxiliary pump to supply operating power.